

Basic Electrical Engineering Formulas And Equations

Electrical Formulas

These are the Basic Electrical Formulas, Related to Ohm's Law,

Variables used in these formulas are as follows:

V = Voltage in Volts

I = Current in Amperes

R= Resistance in Ohms

Power = In Watts

Voltage Formulas

$$V=IR, \quad V=PI, \quad V=\sqrt{P \times R}$$

Current Formulas

$$I = V/R, \quad I=P/V, \quad I=\sqrt{P/R}$$

Resistance Formulas

$$R=V/I, \quad R=P/I^2, \quad R=P/V^2$$

Power Formulas

$$P=VI, \quad P=I^2R, \quad P=V^2/R$$

Following are several additional formulas, which are useful for calculating Current, Horsepower, kW, and kVA for both Single Phase & Three Phase AC Current,

HP= Horsepower

EFE = EfficiencyFactor (Use 0.9 when not mentioned)

PF=Power Factor (Use 0.8 when not mentioned)

AC = Alternating Current

To Find:	Single-Phase	Three Phase
Current, when Motor Hp is known	$\frac{HP \times 746}{V \times EFE \times PF}$	$\frac{HP \times 746}{V \times EFE \times PF \times 1.73}$
Ampers, when kW is known	$\frac{kW \times 1000}{V \times PF}$	$\frac{kW \times 1000}{V \times PF \times 1.73}$
Current, when kVA is Known	$\frac{kVA \times 1000}{V \times PF}$	$\frac{kVA \times 1000}{V \times PF \times 1.73}$
kilowatts (kW)	$\frac{V \times I \times PF}{1000}$	$\frac{V \times I \times PF \times 1.73}{1000}$
kW input, when Motor HP is Known	$\frac{HP \times 0.746}{EFE}$	$\frac{HP \times 0.746}{EFE}$
kilovolt-Amperes (kVA)	$\frac{V \times I}{1000}$	$\frac{V \times I \times 1.73}{1000}$
Horsepower (HP)	$\frac{V \times I \times EFE \times PF}{746}$	$\frac{V \times I \times EFE \times PF \times 1.73}{746}$

Useful Electrical Formulas

To Obtain	Single Phase	Three Phase
kilowatts	$\frac{V \times L \times PF}{1000}$	$\frac{1.732 \times V \times L \times PF}{1000}$
kV-A	$\frac{V \times L}{1000}$	$\frac{1.732 \times V \times L}{1000}$
Horsepower required when generator kW unknown (if generator efficiency is unknown, use 0.93)	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$
kW input when motor hp known (if motor efficiency is unknown, use 0.85 x hp)	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$
Ampers when motor hp is known	$\frac{HP \times 0.746}{V \times PF \times \text{Efficiency}}$	$\frac{HP \times 0.746}{1.732 \times V \times PF \times \text{Efficiency}}$
Ampers when kW is known	$\frac{kW \times 1000}{V \times PF}$	$\frac{kW \times 1000}{1.732 \times V \times PF}$
Ampers when kW-A is known	$\frac{kV-A \times 1000}{V}$	$\frac{kV-A \times 1000}{1.732 \times V}$

All Electrical Engineering Equation And Formulas

**Md. Masud Rana, Wei Xu, Youguang
Guo**



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Handbook of Formulas and Tables for Signal Processing Alexander D. Poularikas, 2018-10-08 Signal processing is a broad and timeless area The term signal includes audio video speech image communication geophysical sonar radar medical and more Signal processing applies to the theory and application of filtering coding transmitting estimating detecting analyzing recognizing synthesizing recording and reproducing signals Handbook of Formulas and Tables for Signal Processing a must have reference for all engineering professionals involved in signal and image processing Collecting the most useful formulas and tables such as integral tables formulas of algebra formulas of trigonometry the text includes Material for the deterministic and statistical signal processing areas Examples explaining the use of the given formula Numerous definitions Many figures that have been added to special chapters Handbook of Formulas and Tables for Signal Processing brings together in one textbook all the equations necessary for signal and image processing for professionals transforming anything from a physical to a manipulated form creating a new standard for any person starting a future in the broad extensive area of research The Electrical Engineer, 1898 **Electrical Engineering**, 1896 *Electrical Engineer's Reference Book* M. A. Laughton, D.F. Warne, 2002-09-27 For ease of use this edition has been divided into the following subject sections general principles materials and processes control power electronics and drives environment power generation transmission and distribution power systems sectors of electricity use New chapters and major revisions include industrial instrumentation digital control systems programmable controllers electronic power conversion environmental control hazardous area technology electromagnetic compatibility alternative energy sources alternating current generators electromagnetic transients power system planning reactive power plant and FACTS controllers electricity economics and trading power quality An essential source of techniques data and principles for all practising electrical engineers Written by an international team of experts from engineering companies and universities Includes a major new section on control systems PLCs and microprocessors Mathematics for Electronic and Electrical Engineering Mr. Rohit Manglik, 2024-07-07 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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Applied Mathematics In Hydraulic Engineering: An Introduction To Nonlinear Differential Equations Kazumasa Mizumura,2011-05-26 Applied Mathematics in Hydraulic Engineering is an excellent teaching guide and reference to treating nonlinear mathematical problems in hydraulic hydrologic and coastal engineering Undergraduates studying civil and coastal engineering as well as analysis and differential equations are started off applying calculus to the treatment of nonlinear partial differential equations before given the chance to practice real life problems related to the fields This textbook is not only a good source of teaching materials for teachers or instructors but is also useful as a comprehensive resource of mathematical tools to researchers

Conference Proceedings. New Perspectives in Science Education Pixel,2017 Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy,1992 Complex Variables and Partial Differential Equations: For the Gujarat Technological University (GTU) Ravish R Singh & Mukul Bhatt, This book has been designed specifically for the Gujarat Technological University GTU syllabus and for the students of engineering in their Third Semester Eight dedicated chapters are set to sequentially cover each module of the syllabus and are compounded by the tutorial technique i e theory followed by example s so that the learner develops an increased sense of conscious intellection This exceptional mix of theory and application caters to all types of requirements be it the student or the teacher Not only is the syllabus rigorously followed but each topic has also been treated with the end examination in sight Concepts are well aided with solved examples of different complexities so that every learner understands the topic at hand

Handbook of Power Systems Engineering with Power Electronics Applications Yoshihide Hase,2012-11-20 Formerly known as Handbook of Power System Engineering this second edition provides rigorous revisions to the original treatment of systems analysis together with a substantial new four chapter section on power electronics applications Encompassing a whole range of equipment phenomena and analytical approaches this handbook offers a complete overview of power systems and their power electronics applications and presents a thorough examination of the fundamental principles combining theories and technologies that are usually treated in separate specialised fields in a single unified hierarchy Key features of this new edition Updates throughout the entire book with new material covering applications to current topics such as brushless generators speed adjustable pumped storage hydro generation wind generation small hydro generation solar generation DC transmission SVC SVG STATCOM FACTS active filters UPS and advanced railway traffic applications Theories of electrical phenomena ranging from DC and

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systems of differential equations Numerical methods are also highlighted alongside partial differential equations emphasizing their applications in physics and engineering The book concludes with discussions on advanced topics like boundary value problems and Sturm Liouville theory Designed for students and professionals this text combines theory and practical applications equipping readers with the necessary skills to tackle real world problems involving differential equations

Fundamentals of Computational Methods for Engineers Md. Masud Rana, Wei Xu, Youguang Guo, 2022-06-01 This textbook bridges the gap between introductory and advanced numerical methods for engineering students The book initially introduces readers to numerical methods before progressing to linear and nonlinear equations Next the book covers the topics of interpolation curve fitting and approximation integration differentiation and differential equations The book concludes with a chapter on advanced mathematical analysis which explains methods for finite difference method of moments and finite elements The book introduces readers to key concepts in engineering such as error analysis algorithms applied mathematics with the goal of giving an understanding of how to solve engineering problems using computational methods Each of the featured topics is explained with sufficient detail while retaining the usual introductory nuance This blend of beginner friendly and applied information along with reference listings makes the textbook useful to students of undergraduate and introductory graduate courses in mathematics and engineering

Eddy Current Approximation of Maxwell Equations Ana Alonso Rodriguez, Alberto Valli, 2010-11-22 This book deals with the mathematical analysis and the numerical approximation of eddy current problems in the time harmonic case It takes into account all the most used formulations placing the problem in a rigorous functional framework

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